USDA United States Department of Agriculture | National Institute of Food and Agriculture

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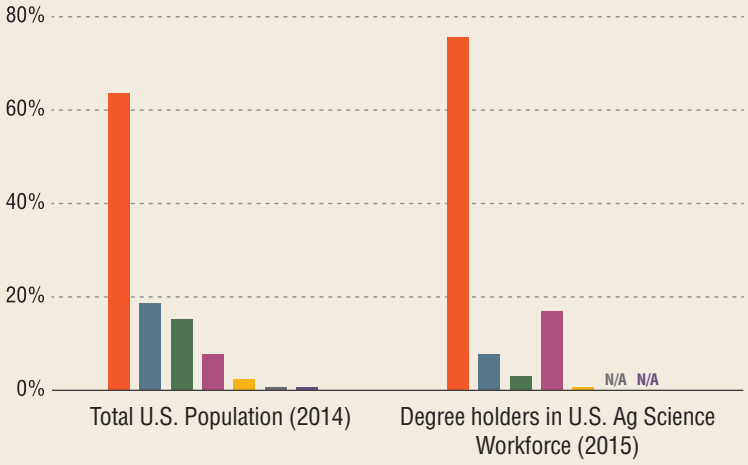
NIFA invests in and advances agricultural research, education, and extension and catalyzes transformative discoveries that solve societal challenges. | **www.nifa.usda.gov**

Diversifying the Next Generation of Agricultural STEM Leaders

NIFA is committed to developing an agricultural science, technology, engineering, and mathematics (STEM) workforce representative of current and projected demographics in America. A diversified workforce is critical for developing the innovations that will drive the continued success of the agricultural sector and U.S. economy while serving respective communities in culturally-relevant ways. NIFA supports this future workforce through specialized partnerships and programs that build institutional capacity, facilitate access to higher education, and provide experiential learning opportunities in the community.

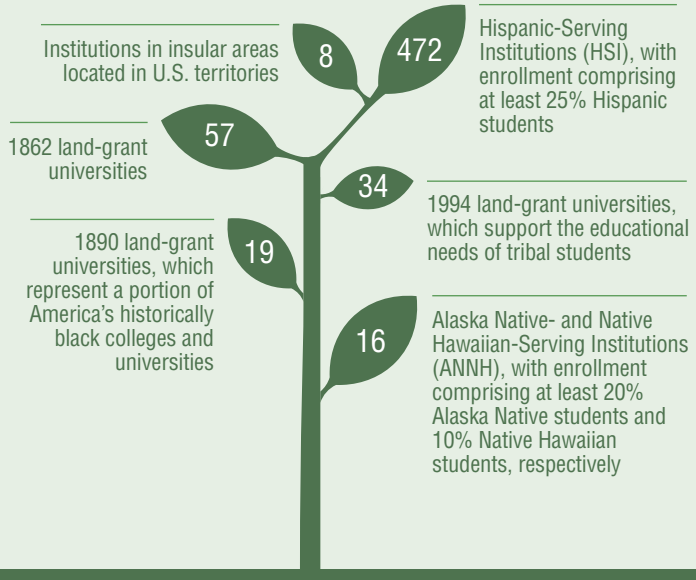
STEM Demographic Gaps

The demographics of degree holders in the U.S. agricultural science workforce do not match the demographics of the U.S. population.



Opening Doors to Opportunities

NIFA increases diversity within agricultural STEM through partnerships and programs that support:



A small number of the HSI, ANNH, and insular areas institutions are also land-grant universities.

DID YOU KNOW?

The top 10 highest paying majors with terminal bachelor's degrees are in STEM.

"The HSI Education Grants Program helped me see opportunities beyond the boundaries of south Texas. The program opened a path that helped me further develop my scientific expertise in plant pathology as well as interest in STEM education and equity. Without the financial support and mentors that I had, I would not be where I am today."

Dr. Carlos Ortiz
2005-2007 HSI Education Grant project participant, Texas A&M University-Kingsville

*Diversifying Student Enrollment in Ag STEM 2004 - 2013

12.7% to 20%
Increase in minority student enrollment as a percent of total enrollment.

7.3%
Total Hispanic student enrollment in 2013. Hispanic enrollment increased the greatest of any racial or ethnic group, more than doubling since 2003.

NIFA's programs foster community vitality and family well-being through extension and community partnerships.

Congressional funding → **Administration of federal funds by NIFA** → **Universities use federal plus state and local funds to manage community programs** → **University-based professionals translate knowledge to meet the unique needs of communities across America**

Extension professionals are integrated within more than 3,000 counties and county equivalents across all U.S. states, districts, and territories. These professionals translate science into opportunities to help improve people's lives.

***FOOTNOTE:** These data are based on the 152 colleges and universities with 100% response rates to the Food and Agricultural Education Information System Survey. The 152 colleges and universities include 65 public non-land-grant non-HSIs, 52 1862 land-grants, 18 non-land-grant HSIs, 12 1890 land-grants, 3 private institutions, and 2 institutions in insular areas. The Food and Agricultural Education Information System is funded by NIFA.

SOURCES: 2012 Census of Agriculture: United States Summary and State Data, Vol. 1, Part 51. *www.agcensus.usda.gov* | Women, Minorities, and Persons with Disabilities in Science and Engineering. *www.nsf.gov/statistics/2015/nsf15311/archives.cfm* What's It Worth? The Economic Value of College Majors. *Cew.georgetown.edu*